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* * * * * * * * *   Welcome to STN International   * * * * * * * * * * *

    NEWS 1   Web Page for STN Seminar Schedule - N. America
    NEWS 2   JAN 08   CHEMLIST enhanced with New Zealand Inventory of Chemicals
    NEWS 3   JAN 16   CA/CAplus Company Name Thesaurus enhanced and reloaded
    NEWS 4   JAN 16   IPC version 2007.01 thesaurus available on STN
    NEWS 5   JAN 16   WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
    NEWS 6   JAN 22   CA/CAplus updated with revised CAS roles
    NEWS 7   JAN 22   CA/CAplus enhanced with patent applications from India
    NEWS 8   JAN 29   PHAR reloaded with new search and display fields
    NEWS 9   JAN 29   CAS Registry Number crossover limit increased to 300,000 in
                        multiple databases
    NEWS 10   FEB 15   PATDPASPC enhanced with Drug Approval numbers
    NEWS 11   FEB 15   RUSSIAPAT enhanced with pre-1994 records
    NEWS 12   FEB 23   KOREAPAT enhanced with IPC 8 features and functionality
    NEWS 13   FEB 26   MEDLINE reloaded with enhancements
    NEWS 14   FEB 26   EMBASE enhanced with Clinical Trial Number field
    NEWS 15   FEB 26   TOXCENTER enhanced with reloaded MEDLINE
    NEWS 16   FEB 26   IFICDB/IFIPAT/IFIUDB reloaded with enhancements
    NEWS 17   FEB 26   CAS Registry Number crossover limit increased from 10,000
                        to 300,000 in multiple databases
    NEWS 18   MAR 15   WPIDS/WPIX enhanced with new FRAGHITSTR display format
    NEWS 19   MAR 16   CASREACT coverage extended
    NEWS 20   MAR 20   MARPAT now updated daily
    NEWS 21   MAR 22   LWPI reloaded
    NEWS 22   MAR 30   RDISCLOSURE reloaded with enhancements
    NEWS 23   APR 02   JICST-EPLUS removed from database clusters and STN
    NEWS 24   APR 30   GENBANK reloaded and enhanced with Genome Project ID field
    NEWS 25   APR 30   CHEMCATS enhanced with 1.2 million new records
    NEWS 26   APR 30   CA/CAplus enhanced with 1870-1889 U.S. patent records
    NEWS 27   APR 30   INPADOC replaced by INPADOCDB on STN
    NEWS 28   MAY 01   New CAS web site launched
    NEWS 29   MAY 08   CA/CAplus Indian patent publication number format defined

    NEWS EXPRESS   NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
                   MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
                   AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

    NEWS HOURS   STN Operating Hours Plus Help Desk Availability
    NEWS LOGIN   Welcome Banner and News Items
    NEWS IPC8   For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

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FILE 'HOME' ENTERED AT 08:52:52 ON 10 MAY 2007

```
=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                              0.21          0.21
```

FILE 'REGISTRY' ENTERED AT 08:53:05 ON 10 MAY 2007
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

```
STRUCTURE FILE UPDATES:    9 MAY 2007   HIGHEST RN 934521-72-9
DICTIONARY FILE UPDATES:   9 MAY 2007   HIGHEST RN 934521-72-9
```

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006
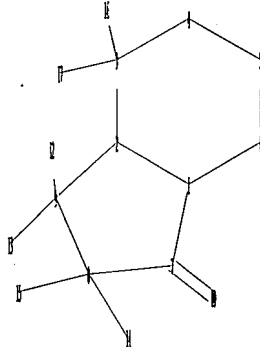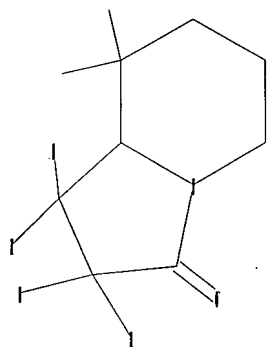
    Please note that search-term pricing does apply when
    conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties·as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

```
=>
Uploading C:\Program Files\Stnexp\Queries\10567314.str
```



```
chain nodes :
10  12  13  14  15  16  17
ring nodes :
1  2  3  4  5  6  7  8  9
chain bonds :
3-16  3-17  7-10  8-14  8-15  9-12  9-13
ring bonds :
1-2  1-6  1-7  2-3  2-9  3-4  4-5  5-6  7-8  8-9
exact/norm bonds :
1-2  1-6  1-7  2-3  3-4  4-5  5-6  7-10
exact bonds :
2-9  3-16  3-17  7-8  8-9  8-14  8-15  9-12  9-13
isolated ring systems :
containing 1 :
```

Match level :
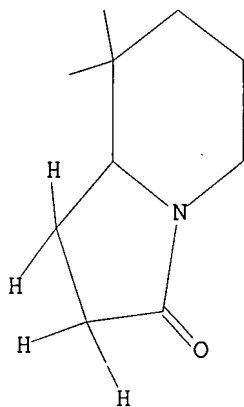1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 08:53:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   84 TO ITERATE

100.0% PROCESSED   84 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 1131 TO   2229
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1

=> sl1 full
SL1 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l1 full
FULL SEARCH INITIATED 08:53:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1805 TO ITERATE

100.0% PROCESSED   1805 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

L3   3 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION

=> s l3 full
L4   3 L3

=> d ibib abs hitstr tot

L4   ANSWER 1 OF 3   CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:129684   CAPLUS
DOCUMENT NUMBER: 146:359018
TITLE: A practical method for the synthesis of pyrrolizidine,
                          indolizidine, and pyrroloazepinolizidine nucleus
AUTHOR(S):   Quiroz, Tomas; Corona, David; Covarruvias, Adrian;
                          Avila-Zarraga, Jose Gustavo; Romero-Ortega, Moises
CORPORATE SOURCE: Departamento de Quimica Organica, Facultad de Quimica,
                          Universidad Autonoma del Estado de Mexico, Toluca,
                          Mex.
SOURCE: Tetrahedron Letters (2007), 48(9), 1571-1575
                          CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB   The alkylation of α,ω-dibromo alkanes, with the sodium salt of
      succinimide, followed by the reduction with sodium borohydride gives the resp.
      N-ω-bromoalkyl-5-hydroxy-2-pyrrolidinones. These substrates are
      precursors of N-acyliminium ions under acidic conditions. The
      condensation of these intermediates with Et malonate in the presence of
      TiCl4 and diisopropylethylamine followed by intramol. cyclization provides
      a convenient route to substituted pyrrolizidinone, indolizidinone, and
      pyrroloazepinolizidinone nucleus in a good yield.
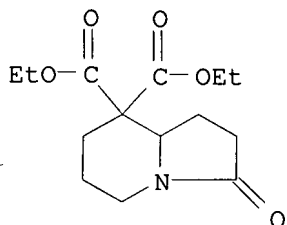IT   930573-80-1P
      RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of pyrrolizidines, indolizidines, and pyrroloazepinolizidines
         from succinimide by alkylation and cyclization)
RN   930573-80-1 CAPLUS
CN   8,8(5H)-Indolizinedicarboxylic acid, hexahydro-3-oxo-, 8,8-diethyl ester
      (CA INDEX NAME)

REFERENCE COUNT: 53   THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
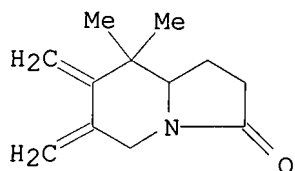
L4   ANSWER 2 OF 3   CAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:48954 CAPLUS
DOCUMENT NUMBER: 136:340581
TITLE: The intramolecular Heck reaction and the synthesis of
                              indolizidinone, quinolizidinone and benzoazepinone
                              derivatives
AUTHOR(S):   Santos, Leonardo Silva; Pilli, Ronaldo Aloise
CORPORATE SOURCE: Instituto de Quimica, UNICAMP, Campinas, 13083-970,
                              Brazil
SOURCE: Synthesis (2002), (1), 87-93
                              CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S):   CASREACT 136:340581
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB   The intramol. Heck cyclization of N-alkyl-, -aryl- or -benzyl-5'-allyl-2-
      pyrrolidinones and N-allyl-, -aryl- or -benzyl-6-allyl-2-piperidinones,
      prepared through allyltrimethylsilane addition to the corresponding cyclic
      N-acyliminium ions, afforded indolizidinones I (n = 0), II and III,
      quinolizidinones I (n = 1) or IV, and benzoazepinones V and VI (n = 0, 1
      for both) in moderate to good yields (56-90%). Exclusive exo-trig over
      endo-trig mode of cyclization was observed in all examples studied, and it
      was accompanied by double bond migration, which precluded the authors'
      attempts of a one-pot tandem Diels-Alder cycloaddn. with dienophiles such
      as maleic anhydride, Me vinyl ketone and di-Et azodicarboxylate.
      Catalytic hydrogenation of a 2:1 mixture of regioisomeric indolizidinones II
      and III afforded the stereoisomerically enriched cis indolizidinone VII
      (20:1 mixture) in quant. yield. A similar behavior was observed in the
      catalytic hydrogenation of regioisomeric benzoazepinones V and VI (n = 1).
IT   417699-98-0P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
      (Reactant or reagent)
          (intermediate in Heck cyclization of allylpyrrolidinone derivative and
          attempted Diels-Alder cycloaddn. of)
RN   417699-98-0 CAPLUS
CN   3(2H)-Indolizinone, hexahydro-8,8-dimethyl-6,7-bis(methylene)- (9CI)   (CA
      INDEX NAME)

REFERENCE COUNT: 43   THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS
                                    RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4   ANSWER 3 OF 3   CAPLUS   COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:198507   CAPLUS
DOCUMENT NUMBER: 98:198507
TITLE: A new synthesis of (±)-lupinine,
                             (±)-epilupinine, and the related heterocycles by
                             application of anodic oxidation
AUTHOR(S):   Okita, Makoto; Wakamatsu, Takeshi; Ban, Yoshio
CORPORATE SOURCE: Fac. Pharm. Sci., Hokkaido Univ., Sapporo, 060, Japan
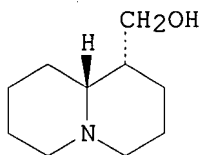SOURCE: Heterocycles (1983), 20(3), 401-4
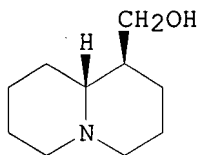   CODEN: HTCYAM; ISSN: 0385-5414
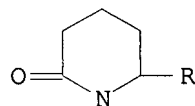DOCUMENT TYPE: Journal
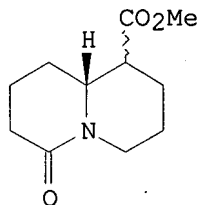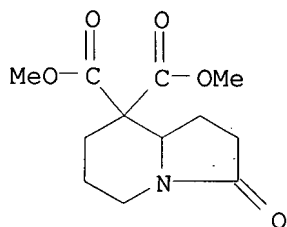LANGUAGE: English
GI

AB   (±)-Lupinine (I) and (±)-epilupinine (II) were prepared by anodic
     oxidn.of the lactam III (R = H) in MeOH to give 71% III (R = MeO), which
     was cyclized with TiCl4 followed by decarboxylation to give two
     quinolizidinones IV (α- and β-CO2Me), which were reduced by
     LiAlH4.
IT   85588-67-6P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
RN   85588-67-6 CAPLUS
CN   8,8(5H)-Indolizinedicarboxylic acid, hexahydro-3-oxo-, dimethyl ester
     (9CI) (CA INDEX NAME)

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                        SINCE FILE        TOTAL
                                              ENTRY          SESSION
FULL ESTIMATED COST                           16.28          188.59

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE        TOTAL
                                              ENTRY          SESSION
CA SUBSCRIBER PRICE                           -2.34           -2.34

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May  4, 2007 (20070504/UP).

=> d his

      (FILE 'HOME' ENTERED AT 08:52:52 ON 10 MAY 2007)

      FILE 'REGISTRY' ENTERED AT 08:53:05 ON 10 MAY 2007
L1              STRUCTURE UPLOADED
L2          0 S L1
L3          3 S L1 FULL

      FILE 'CAPLUS' ENTERED AT 08:53:55 ON 10 MAY 2007
L4          3 S L3 FULL

      FILE 'STNGUIDE' ENTERED AT 08:54:24 ON 10 MAY 2007

=> log y
COST IN U.S. DOLLARS                        SINCE FILE        TOTAL
                                              ENTRY          SESSION
FULL ESTIMATED COST                           0.06           188.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE        TOTAL
                                              ENTRY          SESSION
CA SUBSCRIBER PRICE                           0.00            -2.34

STN INTERNATIONAL LOGOFF AT 08:55:02 ON 10 MAY 2007
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